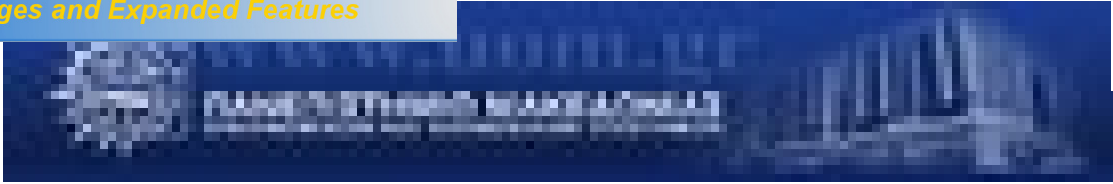


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**(MASTER OF TOTAL QUALITY MANAGEMENT
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Management- IM)

(Information Management- IM),
(Knowledge Management- KM),
(Information Technology- IT)

),

-

-

(1, 2)

>

>

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Web 2.0,

(World Wide Web- WWW)-

KM

e-learning

(K 3, 4)

Web 2.0

ad hoc

of information management (IM) and knowledge management (KM) as basic conceptions in information technology (IT), the research illustrates what may be considered as the particular nature of KM to show potential differences with IM and explores KM contribution in semantic construction and annotation in the archival domain. A two phase strategy is proposed for managing archival knowledge in the current technological environment, exploring the potential challenges offered by IT systems.

The first phase of this strategy (Chapter 1, Chapter 2) focuses on the analysis of IM and KM and presents the triptych *information evaluation > tracing of tacit knowledge > knowledge administration*. Information technology developments in the last two decades, including the development of the internet and particularly the Web 2.0, the construction of communities of practice and the use of metadata, have created problems and opportunities for archival organizations, as managers of archives and records. In the archival domain attention has just recently started to focus on the content of information the document provides, via the construction of meta-libraries, rather than on just the formats and languages in terms of which information in the document is represented. The archival community is coming to realize that all the IT and IM investments and the breaking technological capabilities of the recent past -such as data mining, navigation and search, through indexes and inventories of archives and records within the world wide web (WWW)- are not capable of supporting users' needs, if the data and information resulting from these IM/KM investments cannot be understood.

Within a holistic approach and an e-learning application case study the second phase of the strategy (Chapter 3, Chapter 4) addresses precisely the challenges from investing in KM for the archival domain within the spirit of a basic unified ontological and metadata analysis effort for archival management, as tool of KM. Under a user-centered perspective the knowledge included in the archives should not only be safeguarded, but also be organized, if the main objective of archival institutions operation is the upgrade of efficiency indicator in the current global environment. Archives need to be able to provide their users with a personalized view -a filtered view- rather than just a complete archival description of their content. The clearest example of this core philosophy is provided by the many initiatives growing up around the project of the Web 2.0 in the administration of archives. And as the need for integrating research in these field arises, so does the realization that strong principles for building well-founded KM practices might provide significant advantages over *ad hoc*, case-based solutions.



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1.1.

20
 21 .
 (World Wide Web- WWW) , , Web 2.0

μ

1.2.

Web 2.0

()

() [(meta)data],

Web 1.0

« »,

Web 2.0



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Web 2.0

e- (e-learning, e- government, e-democracy,). e-

(«personalized») web



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/

(«digital objects»)

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raison d'être

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(. . . , , video ,

video, . . .) ,

« - » ,

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capital») / («intellectual

(«interface») («as an object») (Zack, 1999: 46).

1.3. ê ê

K I - « »

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(
archival services»).

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»
, «user-focused

Webø,

2 ó «

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3. «

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4 «

(Case Study)»

Web 2.0,

e-learning,

1.1.

20

(«new economy»)

1. « » « »
 («mass production») («mass
 customization»)» (Hobsbawm, 1999: 23).

(Web 2.0, «quaternaire»)³.

1

Questions in KM: Defining and conceptualizing a phenomenon, *Journal of Knowledge Management*, 3:2, 1999, 94-109.

2

3

quaternaireö:

(Walters, Halliday and Glaser, 2002).

(«information economy» and «information society»).

(«knowledge economy»)

(«added value»)

(, 2005).

(S , 2008).

(Adams, Bessant and Phelps,

2006).

2007 Michelle Debonneuil.

(«business models»),

Michelle, Debonneuil (2007) *L'espoir économique : vers la révolution du quaternaire*. Bourin, Paris.

(European Commission, 2002).

⁴, («memory institutions»),

« ».
« » («content index»)

- « »
- »

(Lynch, 2003). («think globally, digitize locally»)

(Dawson, 2010).

⁴ O « » : , , . Keteraar, E. *Legislation et reglementation en matiere d'archives et de gestion des documents. Une etude RAMP accompagnee de principes directeurs*. Paris: Unesco, 1986, . 6.

(Manovich,

2008).

(, 2001).

(«open access»)

()
(«archival commons»)⁶.

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⁶ O

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(2004)
. J & J Hellas Publishing,



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(=) (=)
(«interfaces»)

(=) (=) .

« ;», « ;» ,
, « ;» (Allen, 2003).

libraries») (, «digital collections») ⁷.

⁷ «The Semantic Web is an extension of the current web in which information is given well-defined meaning, better enabling computers to work in cooperation», T. Berners-Lee, J. Hendler & O. Lassila, (2001) The Semantic Web. *Scientific American*, 284:5, 34-43.



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» («
) « » (, «user-focused archival services»).

(«non rival economic goods»).

(«social memory»),
 » (Nonini, 2006b: 206).

«
 » (Nonini, 2006a: 164).

H - («objects-documents)

(«items»),
 (Nesmith, 2005).

(Balkin, 2004).

O

(. . . media, , risk society, multiple option society, individualized society, global society .)⁹. Krohn (2002: 8139-8143)

innovation» : («technological innovation») 10 («institutional transformation»).

Krohn, « («organizational institutions») («cultural institutions») , , , ».

1960 () («knowledge work») Machlup (1962). Drucker (1969)

. Lane (1966)

8

9 (Nassehi 2000).

Pongs 1999: 259-279, 2007: 213-238.

10 () « » « » . (1998)

« », (2004, 2008) . , A , « » - « », . I. (2006) - X - (. ó . , 6), «organizational» « (analysis & planning, change, chart, climate, design, effectiveness, efficiency, entropy, goal, mirror, multiplier, picketing, slack, structure, system), (character, development), » (level, multiplier, norm), (behavior), (culture)». « » organization, organizing () managerial. « » «organizational change». «organization» (adj.) « » «organizational» (adj.) « », .

1970 Etzioni (1968) Bell (1973) « 1960
() « » («axial
principle») , ,
1980 1990 ,
(Schiller, 1981)
(Lyotard 1984, Poster, 1990).
1990 Drucker Reich,
management (Ansell, 2008). ,
business management, (Stehr and Ericson, 1992)
(«intellectual capital»
(Stewart, 1997).
, 1960 1970,
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(Hennings, 2003). ,
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(«World Wide Web» -WWW),
(«Semantic Web» -SW),

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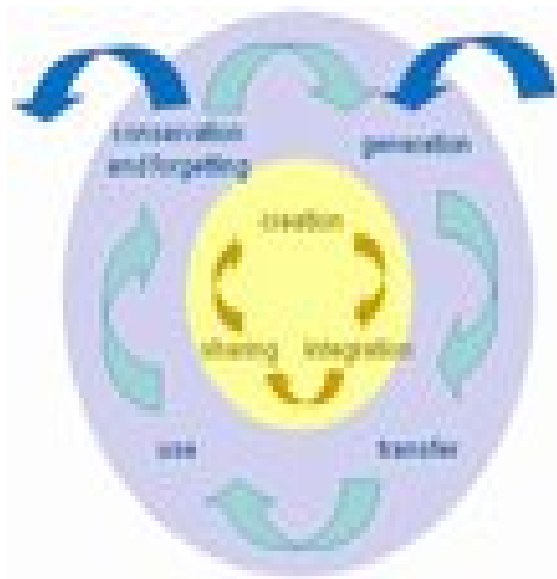
(=)

(Sveiby 1997).

- -- :
- « » « »
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 - , ()

IM), (= «Information Management», (Bouthillier and Shearer 2002).

(1).



1. (: Muller-Prothmann 2006:51).

cycles»), («Web 0& life-

1.3. K

Web 00s

Rosen (2006)

1970

1980

(Web 1.0)

2000

(«World Wide Web» óWWW)

Web 2.0.

1990

1990

» («information architecture» -IA),

site maps,

(«taxonomies»).

(«documents»)

(«information overload»).

(«digital objects»),

(MacManus and Porter, 2005).

(Shirky, 2005).

04 O' Reilly Dougherty Web 2.0
 ' Reilly Medialive
 International, dot.com-s 2001,
 12.
 Web 2.0 Web (Web 1.0),
 , RSS
 Feeds, tags, wikis, («social
 bookmarking services»), folksonomies
 μ ,
 μ (Seely-Brown, 2006).
 Web 2.0 ,
 .
 («social software»),
 13.
 Web 2.0 Web 1.0.
 ; μ ,
 μ μ μ

¹² dot.com- «a company doing business mostly or solely on the Internet. *Origin:* 1995-2000; from the pronunciation of .com, suffix of domain name in most commercial Internet addresses». Web 2.0
 9.5 Google.

¹³ FlickrStorm ,
 Flickr. ,
 tag. - ,



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Web 2.0

online.

O'Reilly (2004) Web 2.0

Downes (2005) Web 2.0

Simao (2006)

Web 2.0

online,

networks»), («social

Really Simple Syndication (RSS),

(Simao, 2006).



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Web 2.0

(«taxonomy»)

(«tags»),

(«labels»)

(«key words»),
 («item»).

(«folksonomy») (Guy and Tonkin, 2006).

intelligence»),

(«collective user

Web 2.0

Web1.0

μ

Web 2.0

(, 2010):

- («participation»):

Web 2.0

Web 1.0

Web 2.0

, wikis

- («usability»):

- («user control»):

- («sharing»):

Web 2.0

- («modularity»):

- («communication» and «user communities»):

- («decentralization»):



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access»): (low cost) («open»)

Web 2.0, (, 2008):

- μ 0: . . . Mapquest, Yahoo!Local, Google Maps
- μ 1: μ
- μ 2: . . . Writely (μ Google Doc2s & Spreadsheets), i-Tunes
- μ 3: «Web 2.0-oriented».

μ , μ . . . eBay, Craigslist, Wikipedia, del.icio.us, Skype, dodgeball, AdSense.

Web 2.0

14 .

(«Semantic Web»),

« »

¹⁴ . http://en.wikipedia.org/wiki/Web_2

() , , Web 3.0?

« » 15 . Web 2.0

workflows () infrastructure.
 Lassila Hendler (2007) Web 3.0
 Markof 2006. New York
 Times Web 3.0 () ,

(Markof, 2006). H

(Web1.0> Web2.0>Web3.0)

« » iGoogle. Web 2.0
 Blogs Wikis,
 («dynamic content»).

(Berners-Lee, Hendler and Lassila 2001). ()
 () [(meta)data],
 (Jurisica, Mylopoulos and Yu 1999). ()

15 -- Web 3.0, 6
 Web, web mining
 web agents,



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35-50)¹⁶. 2007 Berners-Lee, Web 2.0, Web 3.0,

links /
 17.
 («mashups»)

(Liu et al, 2001).

(«information brokers») agents (Decker et al, 2000).

18 agents

16
 17 news.pathfinder.gr/.../eswc2010.html

sites
 site

Internet

18

J. Davies, D. Fensel and F. van Harmelen, (2004) *Towards the Semantic Web ó Ontology Driven Knowledge Management*. John Wiley & Sons, London, 1-9. Y., Ding (2001) Ontology: The Enabler for the Semantic Web. *Journal of Information Science*, 27:6, 377-384, Y. Ding, D. Fensel, M. Klein, and B. Omelayenko, (2002) The Semantic Web: Yet Another Hip? *Data and Knowledge Engineering*, 41:3, 205-227.

: «An ontology is an explicit specification of a conceptualization. The term is borrowed from philosophy, where an Ontology is a systematic account of Existence. For AI systems, what exists is that which can be represented. An ontology is, then, an explicit, formal specification of a shared conceptualization of a domain of interest.» T. Gruber (1993) A Translation Approach to Portable Ontology Specifications. *Knowledge Acquisition*, 5:2, 1996220.

(2005)

agents

(Hendler, 2001)

(2).

Web 1.0	Web 2.0	Web 3.0
•The mostly read only web•	•The wildly read-write web•	•The portable personal web•
Focused on companies	Focused on communities	Focused on the individual
Home pages	Blogs	Lifestream
Owning content	Sharing content	Consolidating dynamic content
HTML, portals	XML, RSS	The semantic web
Web forms	Web applications	Widgets, drag & drop mashups
Directories (taxonomy)	Tagging (folksonomy)	User behavior
Netscape	Google	iGoogle, NetVibes
Pages views	Cost per click	User engagement
Advertising	Rich media, viral	Advertainment

2. Web 3.0, (: slideshare, Strickland)



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Benkler (2006)

Terry Abraham 5.000

« », ,

« »

(GDFR, PRONOM)

Rosenzweig (2006) Moody (2001)
peer-based

open-source software

() (

) («web 0 life- cycles»), :

(Greene and Meissner, 2005).

(«information management» -)¹⁹ («knowledge management» -KM)

(Tsoukas & Vladimirou, 2000). («cooperative knowledge»)

20

(Maier, 2007).

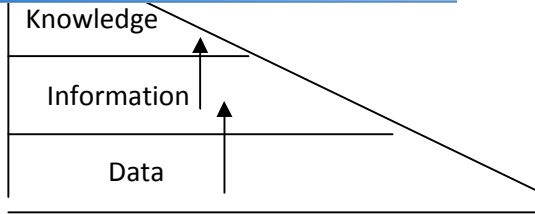
« » («data») («information»)²¹. H « » (Nonaka, 1994:15). « » (Davenport and Prusak, 1998: 5) (3 4).

¹⁹ [for the beginners] *The 42 books to start your Knowledge-Management own bibliography*, www.knowledgeboard.com/cgi.../item.cgi

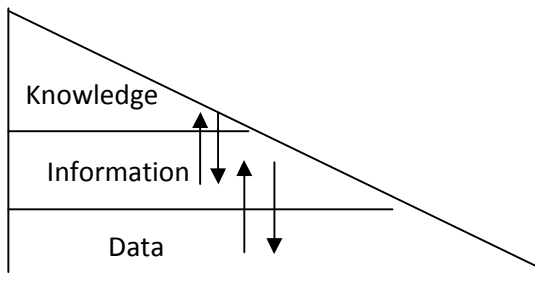
²⁰ («information management» -IM), («knowledge management» óKM). 1985 Cronin (1985: viii) (1981: 78). Cronin (1985: viii)

(1991) Eaton Bawden

(Martensson, 2000; Kakabadse et al., 2001).



3: (: Hicks, Galup and Dattero, 2007).



4: (: Hicks, Galup and Dattero, 2007).

(Wenger et al. 2002: 8-11):

- ()
 -
 -
 -

(«explicit») («tacit») () («knowing») («knowledge»). («tacit») ,

, « » («the know-how»), . («explicit») (. . , , .), « » («the know-what»).

(Brown and Duguid, 1998; Cook and Brown, 1999) (5).

	Included ory	Ways of Knowing (Cook & Brown, 1999)
<i>Know-what</i>	Explicit knowledge relating to organizational facts and conventions.	<i>Concepts</i> represent individual, explicit forms of knowledge —or generically subjective forms (Weick, 1995).
<i>Know-why</i>	Explicit knowledge relating to global rules and models of behaviour; Tacit knowledge, relating to local and socially-situated, normative practice.	<i>Stories</i> relate the application of specific knowledge to specific situations, providing a rationale for its application and a cultural set of meanings that legitimize that rationale within the local organizational culture.
<i>Know-how</i>	Tacit knowledge relating to the accumulated internalization and recursive interpretation of the skills required for professional competence/expertise through learning-by-doing.	<i>Skills</i> embody tacit, individual knowledge, and permit that knowledge to be applied unreflectively, so that it becomes internalized and communicated through shared practice. <i>Genres</i> are shared conventions and practices that make group knowledge identifiable and accessible for a specific community of practice.
<i>Who-knows-what</i>	Explicit knowledge relating to individuals' wider social networks of knowledge sources, that may be local or global.	Across community boundaries, <i>process exemplars, claims of expertise</i> , and the use of specific <i>genres</i> are mobilized to access and to influence perceptions of who-knows-what. As groups become more stable other mechanisms may come into play.

5: (: Cook and Brown, 1999).

(«knowledge creates value»), Wersig (1993)

McDermott (1999),

. Armbrecht

« , ,

» (Armbrecht et al., 2001: 29).

:

(= ,)

(«individual

knower»),

(Wilson, 2002) (6).

	Mode of Use (Star, 1989)	Integrative Nature of Boundary Object (Carlile, 2002)
Repositories	Permit differences in the unit of analysis used by different groups. <i>Example:</i> An archive allows individuals to search by field of research or by type of study, as their local task requires.	<i>Assumes people understand meanings in the same way.</i> Integration across boundaries is accomplished through processing information or transferring knowledge across the boundary.
Standardized forms, methods, and procedures	Enforce normative work practices across knowledge-boundaries and provide a shared format for solving problems across functions. <i>Example:</i> By using Rational UML, we model specific elements of a problem situation, to enforce a shared way of working.	<i>Shared method enforces a shared view.</i> Integration across boundaries is accomplished through processes or methods that permit translation and learning about differences and dependencies at the boundary.
Models and ideal-type objects	Provide an abstraction that works for all knowledge domains. <i>Example:</i> A workflow model defines information flows across the interface between processes, but not local mechanisms of work.	<i>Diverse perspectives require negotiation and synthesis.</i> Integration accomplished through jointly transforming existing, local knowledge into novel forms of shared knowledge.
Terrain with coincident boundaries (Maps)	Provide common boundaries of analysis while permitting different internal contents. <i>Example:</i> A map defining state boundaries may be used for different purposes by police or water engineers.	<i>Diverse perspectives require negotiation and synthesis.</i> Integration accomplished through jointly transforming existing, local knowledge into novel forms of shared knowledge.

6: Modes

(: Star, 1989; Carlile, 2002)

« »

(«management discipline»),

, Beckman (1999)

1986

Wiig²². Koenig (1997)

(«knowledge mapping»),

. Gourlay (2000) Beckman (1999)

. Broadbent (1998)

Streatfield Wilson (1999)

²²

Wiig Knowledge Management Foundations, 1993. . Wiig, K. (1993) Knowledge Management Foundations. Schema Press, Arlington, VA.

», « » (Martensson, 2000).

1995.

», « » (Choo, 1998).

(Broadbent, 1997; Abram, 1997; Chase, 1998; Henczel, 2001; Oxbrow and Abell, 2002). («sharing»)

(World Bank, 1999; Luen and Al-Hawamdeh, 2001).

(MacMorrow, 2001).

/ («intellectual capital») (Davenport and Prusak, 1998).

(Koenig, 1997).

(American Productivity and Quality Center, 1999).

(Davenport and Prusak, 1998),

Hlupic et al. (2002)

18 (Choo, 1998; Srikantaiah and Koenig, 1999, Oluic-Vukovic, 2001,

l Takeuchi 1995, Boisot 1998, Brown and Duguid

1998),

Encyclopedia of Library and Information Science

(St. Clair, 2003: 1486).

(Yang and Lynch, 2006).

∅ , « » («communities in action» or «communities of practice» (Ruggles, 1997).

(Wenger, 1998).

(Brown and Duguid, 1992).

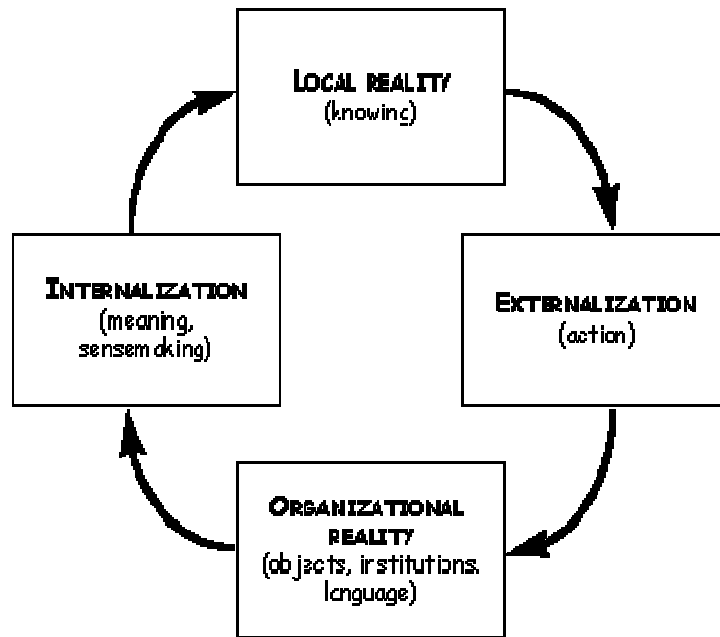
(Boland and Tenkasi, 1995).

(«tacit knowledge»).

(/) (International Council on Archives 2000; Horsman 2000).

(Gilliland-Swetland, 2000).

24 (7).



7:

(Gjersvik, 1993:37)

«
(«as an object»
) » (Zack, 1999: 46).

(«interface»)

()

25.

24

(Alavi and Leidner, 2001; Clark and Starkey, 1988; Skyrme, 1999).

Earl (2001), Schultze and Leidner (2002), Alavi and Leidner (2001), Michael Zack (1999).

25

()

- (=)
- 1. ;
- 2. ;
- 3. ;
- 4. ;

- (=)
- 1. («organizational structure»)
- 2. («organizational culture»)
- 3. («style of management»)
- 4. («knowledge gaps»)

- (=)
- 1. «³¹» ;
- 2. ;

29 :

30 , . Chris, Argyris (1999) *On Organizational Learning*. Blackwell Publishers, Cambridge, MA.

31 ,

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(Ambrosini and Bowman, 2001).
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(«extracting of scientific knowledge»),
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(Anderson and Whitelock, 2004).

(«reuse»), («sharing») -
 («interoperability») () ,
 («concept maps»), («topic maps»)
 («conceptual graphs»)

(«Web Based Educational Systems» --WBES) (royo and Dicheva, 2002).

(Web 1.0> Web 2.0> Web 3.0)

« »

2.1.

(«sociology of knowledge») (« ») ,
 (« ») ,
 (« ») ,
 («the object of the sociology of knowledge») « » ,
 » (Berger and Luckmann, 1967: 3).

(8).



8. (: Efimova and Swaak, 2002).

(«knowledge management life-cycles»). Nonaka
 Takeuchi (1995) :
 («combination»), («internalization»),
 («socialization») («externalization»).
 («tacit or explicit»),
 («tacit or explicit»).

(RSs).

(Nonaka, 1994). :

- (): , e-mails .
- (): () . , .
- (): . , .
- (): . , .
- (): . , .

Hlupic et. al. (2002) Ruggles (1997), :

(«knowledge production»
 («codification of knowledge»
 («knowledge transfer»),

Oluic-Vukovic (2001) :

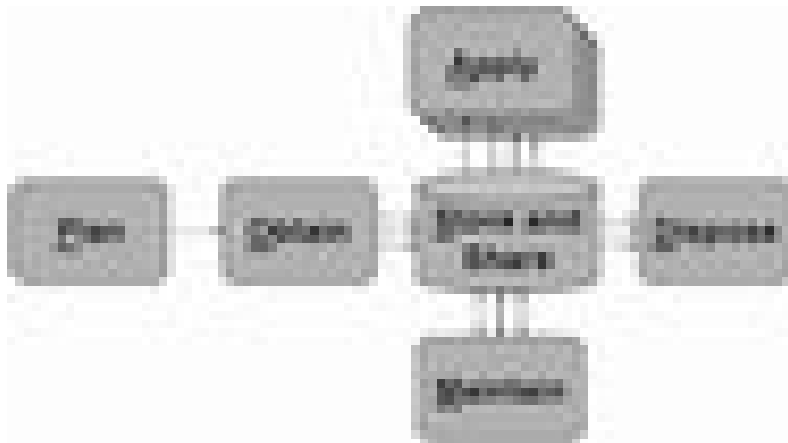
- («refining»)
- («representing»)
- («disseminating»)

Oluic-Vukovic

(«information life-cycle processes»),

(Bouthillier and Shearer, 2002) (9 a b).

(a)





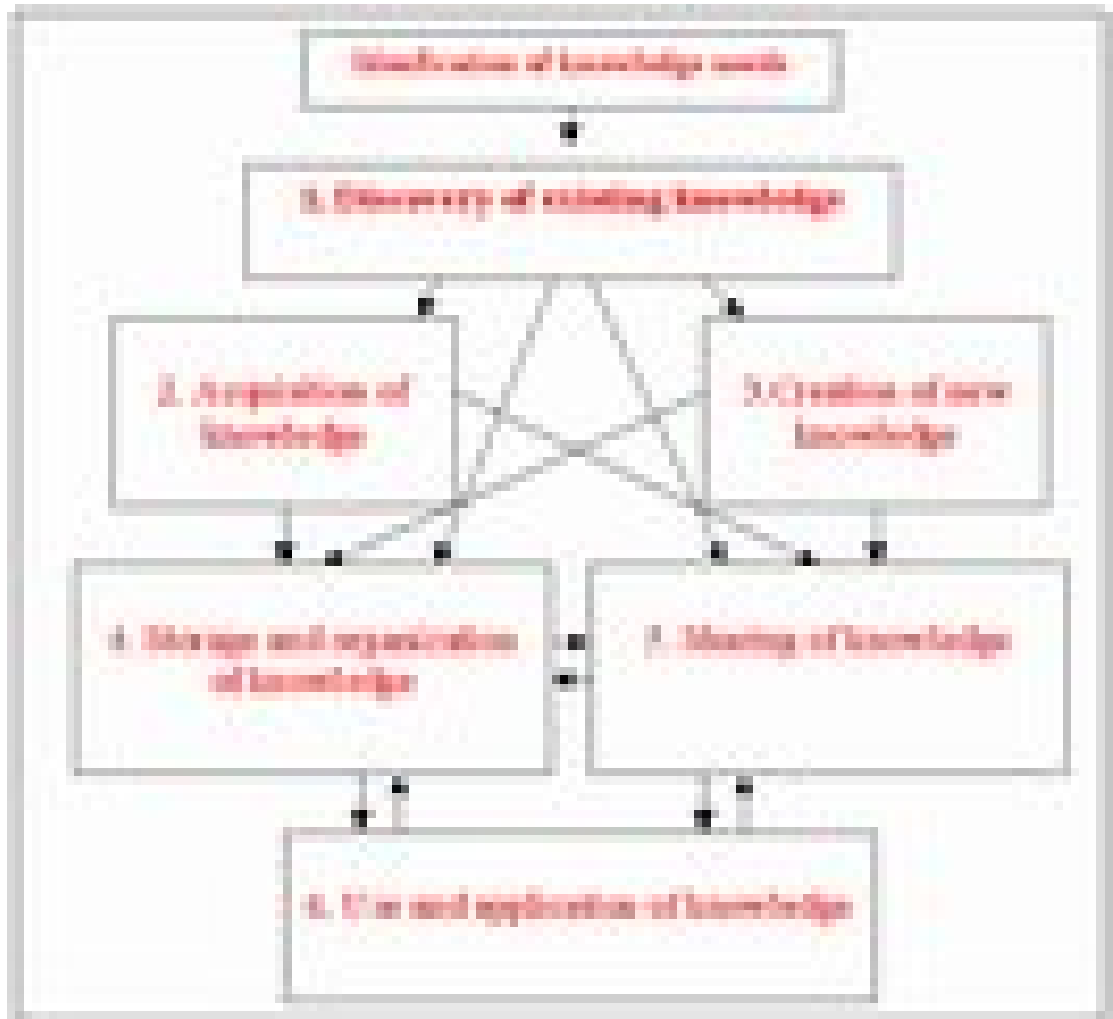
9. (a) (b)
(: McGilvray, 2008).

Oluic-Vukovic , ,
 («gathering» , («discovery»),
 («acquisition») («creation»), ∅
 («refining») («representing») Oluic-Vukovic
 ,
 o o , («organising»),
 («storage»), («storage
 and organising»),
 («knowledge sharing»),
 («dissemination») Oluic-Vukovic,

(e-learning, lifelong learning, e-government, e-democracy,).

(10):

- («gathering»), («discovery»), («acquisition») («creation»)
- («storage and organizing»)
- («sharing»)



10. Vukovic (: Bouthillier and Shearer, 2002).

Oluic-



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33

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³³ H

- . 1946/1991,
- 162/1979,
- 768/1980,
- 87/1981,
- 480/1985,
- .2539/1998,



- (899/1980)
- (245/1997)
- (276/2000)
- (365/1981)
- / (397/1988, 27/1996)
- (552/1978)
- (1258/1981)
- (128/1986, 948/1977)
- (. 2539/1997)
- (120/1966)

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[(,), (444), - CD-)].

()³⁵. (2 87/1981 , 7 480/1985)³⁶.

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41, .2

Oluic-Vukovic (, ,)

(, ,)
 (, ,)
 . ,

(«discovery»)

(«acquisition»)

(Brown and Duguid,

1996).

(«creation»)

internal knowledge

internal knowledge

intelligence»³⁷.

« » («competitive

(van den Heuvel, 2010).

(«storage and organising»)

(«sharing»).

(,).

(,)
 o

2003).

(. .) (Nonnecke and Preece,

³⁷

(competitive intelligence -CI):



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(Galison,

(«information overload»),
(Liu, 2004).

(Snowden, 1998).

().

value») « » («services of added

(Chernatony and Harris, 2000).

(«preservation and retrieval of information»),

(«sharing of knowledge») (Martensson, 2000).



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39

(«actions»)
(«facts»).

()

« » («record»)

« » («archive»)

(«records or archives»),
« » (« », «documents»),
(Baca, 1998).

➤

6

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39
(«paperless»).

(Gilliland, 2002).

(Ellis,

40

41

42

43

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(«e-government»)

41

DLM-Forum11 1996.

IDA12

Cornwell Affiliates plc,

MOdel REquirements for the Management of Electronic

Records (MOREQ ó IDA Programme, European Commission, 2001,

MOREQ

MOREQ

To MoReq

MoReq 2010, . DLM Forum Archive, Records and Information Management in Europe,


www.dlmforum.eu/index.php MOdel REquirements for the Management of Electronic Records

(MOREQ ó IDA Programme, European Commission, 2001.

42

162/1979, . . . 768/1980, . . . 480/1985),

43



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2002).

« » («the
issue») (Butler, 2000, Gibbert, Leibold and Probst,

(ourtoumi, 2009).

sui generis

()

(ourtoumi, 2005b).

records»)

(«archival digital documents»).

(«archival

(Cool, 2001).

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44

(. .

, , ,),

(Ellis, 2000: 316-343).

(Baca, 1998).

(« »- «metadata»)

(Elings and Waibel, 2007).

(«archival and manuscript metadata»)

(Greenberg, 2003).

MARC Archival and Manuscript Control (AMC) format, 1984 (MARC format for bibliographic description) . General International Standard Archival Description [ISAD (G)] 1994. Encoded Archival Description (EAD) standard

44

(2000) (. .), , . Judith, Ellis, (1998) :

...an Archivists -SAA) 1999 (Chang, 2000).
 on line
 , RLIN AMC («the Research Libraries Information Network Archival and Mixed Collections file»), Archives USA EAD-based archival information systems, Online Archive of California (Guenther and McCallum, 2003, Gilliland-Swetland, 2000) (11).

Type	Definition	Examples
Administrative	Metadata used in managing and maintaining information resources	<ul style="list-style-type: none"> • Acquisition information • Rights and reproduction tracking • Documentation of legal system requirements • Location information • Selects criteria for digitization • Version control and differentiation between similar information objects • Audit trails created by recordkeeping systems
Descriptive	Metadata used to describe or identify information resources	<ul style="list-style-type: none"> • Cataloging records • Finding aids • Specialized indexes • Hyperlinked relationships between resources • Annotations by users • Metadata for recordkeeping systems generated by records creation
Preservation	Metadata related to the preservation (management) of information resources	<ul style="list-style-type: none"> • Documentation of physical condition of resources • Documentation of actions taken to preserve physical and digital versions of resources, e.g., data reformatting and migration
Technical	Metadata related to how a system functions or metadata failure	<ul style="list-style-type: none"> • Hardware and software documentation • Digitization information, e.g., formats, compression ratios, scaling profiles • Tracking of system response times • Authentication and security data, e.g., encryption keys, password data
User	Metadata related to the level and type of use of information resources	<ul style="list-style-type: none"> • Exhibit records • Use and cost tracking • Content in use and audit tracking (e.g. service)

11. (: Gilliland-Swetland, 2000).

(«added value»)⁴⁵.

/ (Fisher, Price, Sandra and Hanstock, 2002).
, ,
, ,
recontextualisation (Michael Ames (1992: 141-143),
, () o
(Ketelaar, 1999a: 138 2001: 143-155, Rowat, 1993: 198-204).
« » ,
(Pomian, 1990). , ,
, .
, . Bearman
(1994: 237) « , , , ,
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, , , ,
, , , ,
sui generis.
, , .
« » ,
Cook (2001: 10). ,
, .
, . Derrida
(«interpretation»)
« » ,
(1996: 68). *Derrida* (1996: 18). K
, ,
(/),
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45

(Ketelaar, 1999 b: 7576761).

« » , « » ,
 ø , ó
 - , ()
 (Verne, 2000: 20).

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« » , ;

2.3.

life-cycle») («digital historical document
 / («archive»)
 («digital objects»).

(«digital collections»).

(Buitelaar, Cimiano, Racioppa and Siegel, 2006).

H

- 1 - («document scanning»):
- 2 - manually («information extraction»):
- 3 - («document») («content based filtering»):
- («knowledge production»):
- («collaborative filtering»):
- («document analysis»)
-
-
-
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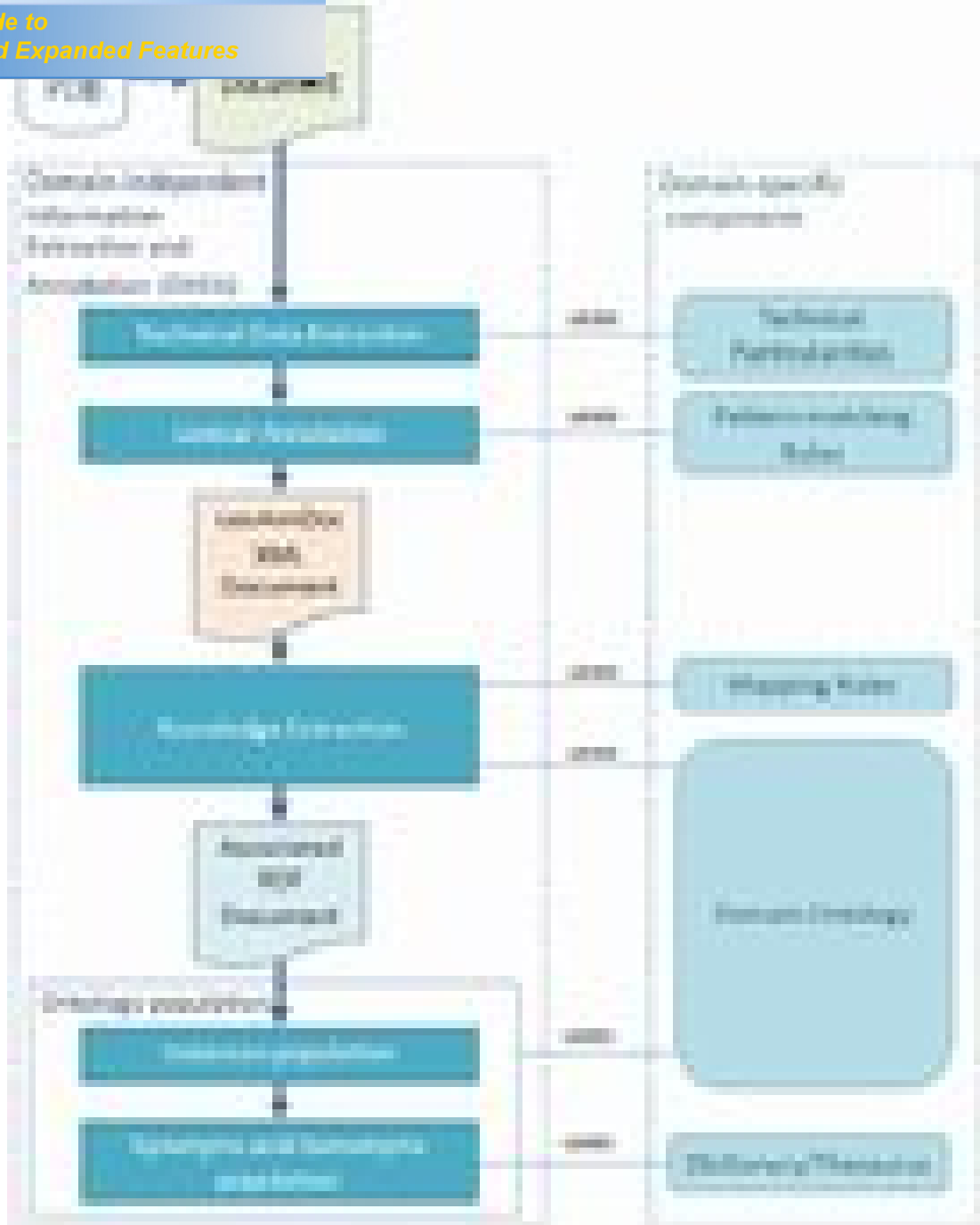
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(Amardeilh,

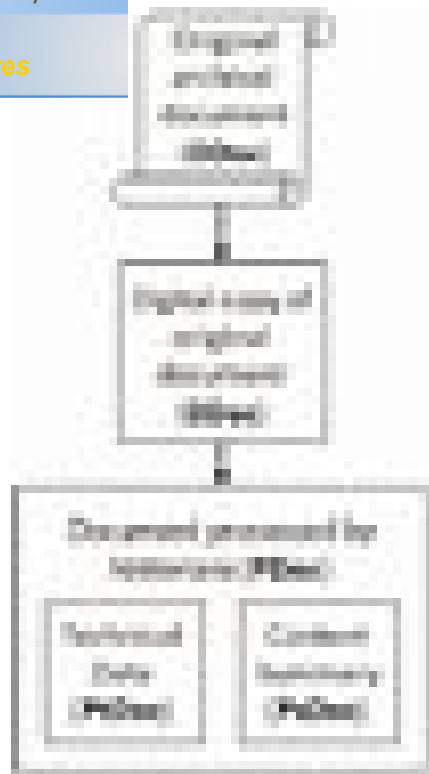
interfaces,

(12).



12. (: Salomie, Dinsoreanu and Pop, 2009).

(13).



13.

(: Salomie, Dinsoreanu and Pop, 2009).

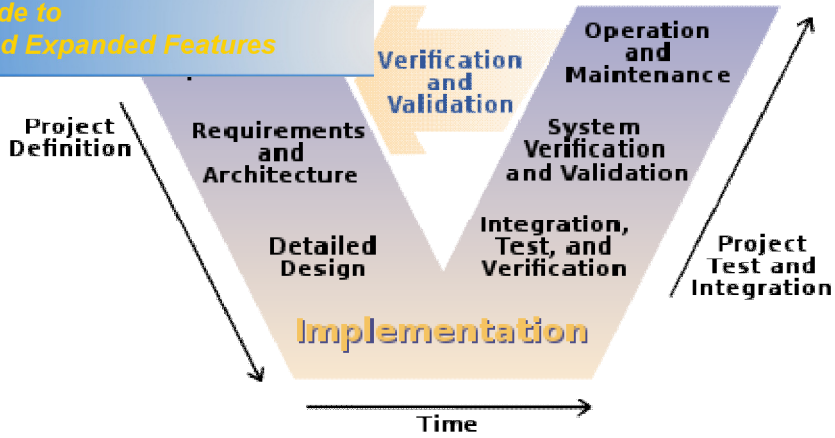
DDLC) («digital document life-cycle development» DDLC («digital document workbench»- DDW)⁴⁷. DDLC («semantics-based content extraction in typewritten historical documents»).

DDLC («DDLC document engineering») V («software engineering»)

(14).

⁴⁷ collection, . www.ushmm.org/oralhistory/.

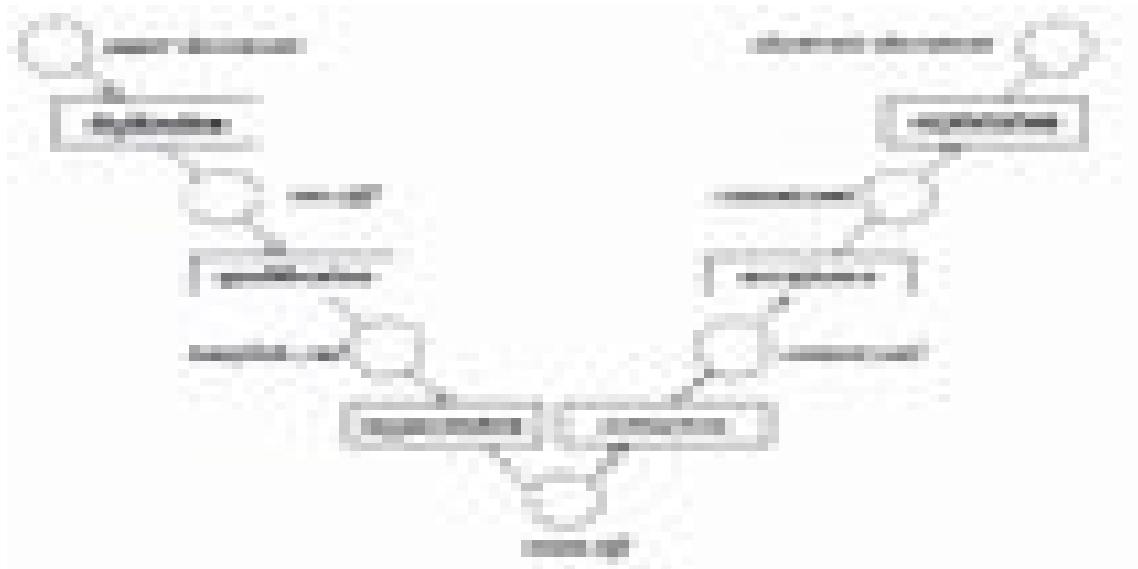
The U.S. Holocaust Memorial Museum's oral history



14. V software engineering (: en.wikipedia.org/V-Model_(software_development))

DDLC, V,

(«engineering»)
(15).



15. Antonacopoulos, Karatzas, Krawczyk and Wiszniewski, 2004). (:

, raison d'être (=)

DDW.

DDLC DDW toolset.
(«recovery process»)

(Baird, 2003).

DDLC
(«process model») ⁴⁸:

(«digitization»),

()

(Bourgeois, Trinh, Allier, Eglin and Emptoz, 2004).

raw image TIFF generated files,
generated file

(RMT) DDW toolset Document Repository Management Tool
(«raw image file namespace management»).

(«qualification»),

(. . . card postals

« »

48

Antonacopoulos, Dimosthenis Karatzas: A Complete Approach to the Conversion of Typewritten Historical Documents for Digital Archives. *Document Analysis Systems 2004*: 90-101, Apostolos Antonacopoulos, Dimosthenis Karatzas, Henryk Krawczyk, Bogdan Wiszniewski: The lifecycle of a digital historical document: structure and content. *ACM Symposium on Document Engineering 2004*: 147-154, Apostolos Antonacopoulos, Dimosthenis Karatzas: Semantics-Based Content Extraction in Typewritten Historical Documents. *ICDAR 2005*: 48-53, Joan Mas, José A. Rodríguez, Dimosthenis Karatzas, Gemma Sánchez, Josep Lladós: HistoSketch: A Semi-Automatic Annotation Tool for Archival Documents. *Document Analysis Systems 2008*: 517-524 Antonio Clavelli, Dimosthenis Karatzas, Josep Lladós: A framework for the assessment of text extraction algorithms on complex colour images. *Document Analysis Systems 2010*: 19-26.

(«phase tuning»).

XML,

(«page layout»)

(«content of a page»),

-«personalization») (McDonald et al., 2002).

(personalized)

(«web mining»)

(),

(Garrett, 2003).

DDW

sui generis

template Electronic Document eDitor (EDD) tool
 graphical interface
 XML.

XML files.
 document expert

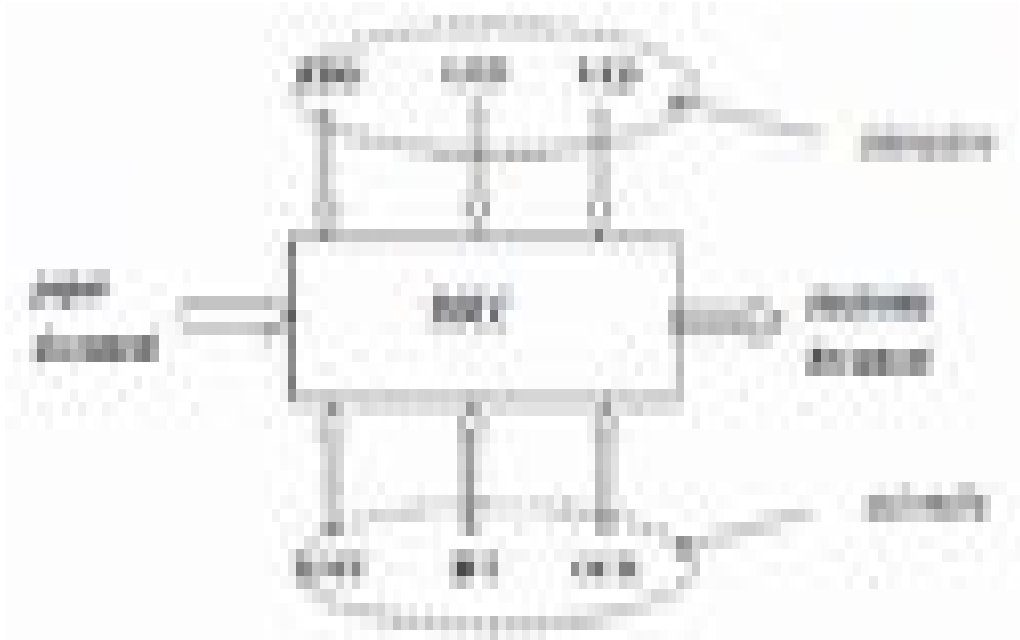
- («segmentation phase»),
 Image Processing Tool (IPT),
 TIFF binarised clean images.
- («extraction»),
 « » Optical Character Recognition
 (OCR), XML
- («acceptance»),
 («personalization»).
 XML OCR
 (Davenport, Thomas and Cantrell, 2002).
- («exploitation») (= («loading»)).

OCR

-«personalization») (Barth, 2000).

(1995, 1895),

modification content editor Generator of Electronic Documents (GED). () annotation, multivalent browser Viewer of Electronic Documents (VED) (16).



16. DDW (: Antonacopoulos, and Karatzas, 2005).

Editors EDD and GED, and browser VED document image handling tools RMT, IPT and OCR DDW XML interface. DDW DOKuStar OCE. DDW DDW tools («phase tuning»), («quality evaluation») (QED). DDLC,



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DDLC,

(«recovery process»),

(. . . , , , .),

(. . . , , .) (Cao and Govindaraju, 2007).

(. . . , , .) (Tomai, Zhang and Govindaraju, 2002).

(«knowledge extraction»),

domain ontology

(Lopez and Perez, 2002).

(«knowledge acquisition mapping rules») (Llados, Pratim-Roy, Rodriguez, and Sanchez, 2007).

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(RDF 17).



17. (: Salomie, Dinsoreanu, Pop, Suci, 2010).

specialised editor. («quality tuning») (Bourgeois, Trinh, Allier, Eglin, and Emptoz, 2004). manual, /



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Web 1.0

« »,

Web 2.0

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(IS), ó --

Web.

(, ,), -

web-based

e- (e-learning, e- government, e-democracy,). e-

(«personalized») web



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e- .

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3.1.

- Vukovic ()
- ()
- ()

(ourtoumi, 2008).

« » « » (Jennex 2007).

Fathian 2005) (18). (Akhavan, Jafari and



18. (:en.wikipedia.org/Business_process_reengineering)

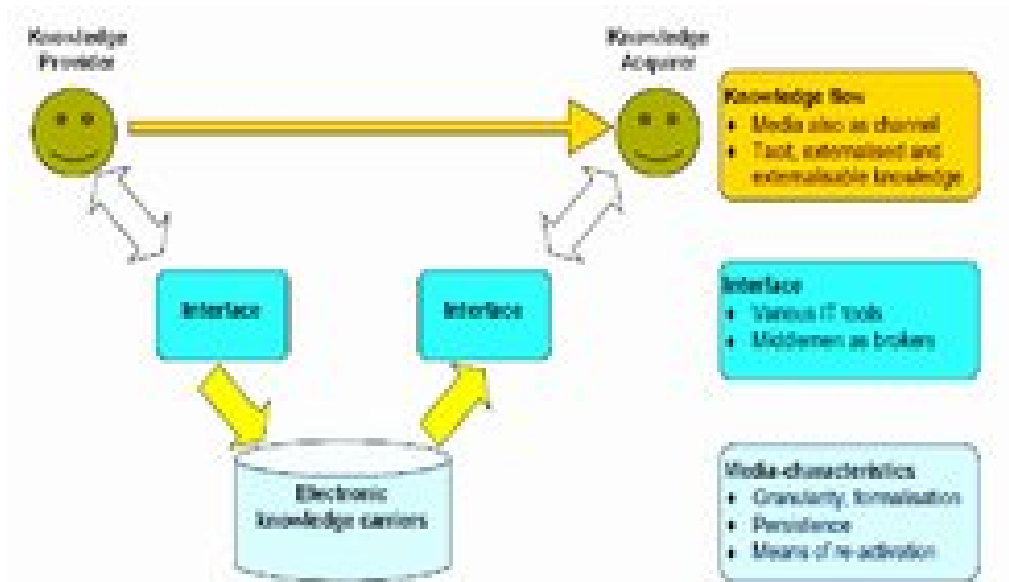
- « storage and organizing » («knowledge Oluic-Vukovic «reflect phase»):

(«seamless») (Ruller, 1997; Tibbo, 2003).

(Venturelli, 2001).

(Yakel, 2004).

(«the knower»), («the knowledge seeker») (Gladney, 2008) (20).



20.

(: Carlsen, et al,1999).

(Proffitt, Sweeney and Van Garderen, 2006):

- ()

- ()

- ()

- ()

:

(Ghetu Krause and Yakei, 2007).

- Raw retrieval- interface

(O'Brien and Toms, 2008).

- Manual selection-

() ().

- Statistical summaries-

(. .)

- Attribute-based technologies-

raw retrieval,

- Item-to-item correlation-

- User-to-user correlation-

filtering social filtering collaborative information filtering, / (Voss, 2007).

- « (processes) (objects) » («knowledge use and application» Oluic-Vukovic or «review phase»):

(Gordon-Murnane, 2006).

(Haworth, 2001). ISAD-G

()

()

(«suggestions»)
 « » « » («predictions»)

(Allen, 2005).

(«ratings»)

(Yakel, 2000). («reviews»)

- « » («knowldege sharing»
Oluic-Vukovic or «act phase»:

(Anderson and Allen, 2009).

ó sui generis --

(Kramer-Smyth, 2006).

(Hamburger, 2004).

recommendations («personalization degree»).

recommendations («non-personalized»).

(Mathes, 2006).

(«ephemeral personalization»).

(O'Neill Adams, 2007).

item-to-item correlation, attribute-based recommendation («persistent personalization»)

item-to-item correlation, user-to-user correlation attribute-based recommendation. («profiles»), (Yakel, 2002).

(Affleck and Kvan, 2008).

(«electronic communities of practice») (Wenger, McDermott and Snyder, 2002).

forums

e-learning, e-democracy, lifelong learning,

(Huvila, 2008).

(Yakel, Shaw and Reynolds, 2007).



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3.2.

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(Yakel , 2006).

(Van Garderen, 2006).

(Cox, 2002).

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(, , .)

21).

(20 (Cullen, 2000) (



21. 2009).

(: Jantz,

labels (Guarino, 1995; LEADERS, 2007).

(Pavlov and Nisheva-Pavlova, 2006).

2004). (Thaller,

(Heller and Vogeler, 2005).

(«final converted document»)

/



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et al, 2008). , pixel-based
 OCR
 methods (Sánchez, et al, 2004).

· ,
 · ,
 / ()
 (Clavier, et al, 2003).
 ()
 ,
 (Sassoon, 2007).

(Cox, et al,
 2007; Greene and Meissner, 2005).

Journal of
 the American Society of Information Science and Technology (JASIST),
 ,
 ,
 search engine
 performance (Bar-Ilan, 2002), o web media agents (Wenyin, et al, 2001),
 visualization tools (Zhang and Dietmar, 2001).

styles (Chen and
 Macredie, 2002), motivation (Shapira, et el, 2001), searching behavior (Cothey, 2002)
 and individual differences (Ford, Miller and Mass, 2001).
 (Chalmeta and Grangel, 2008), web
 (Rieh, 2002), (Wathen and Burkell, 2002)
 (Tang and Solomon, 2001).

ó
 .
 (Sauer, 2001).

3.3.

resource-intensive.

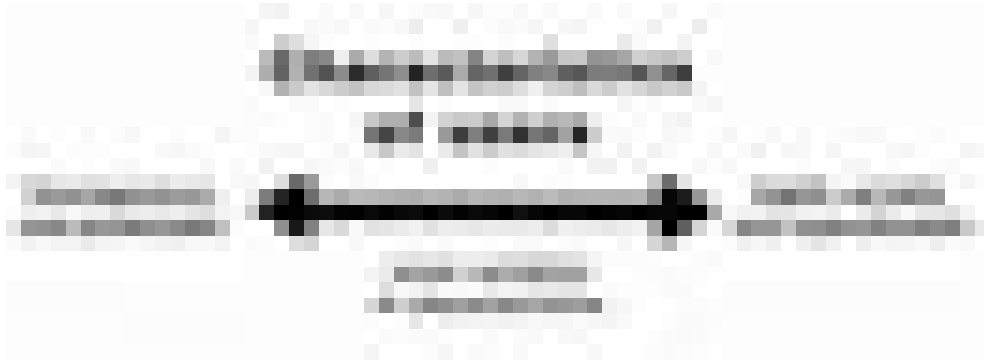
(Oø Neil

Adams, 2007).

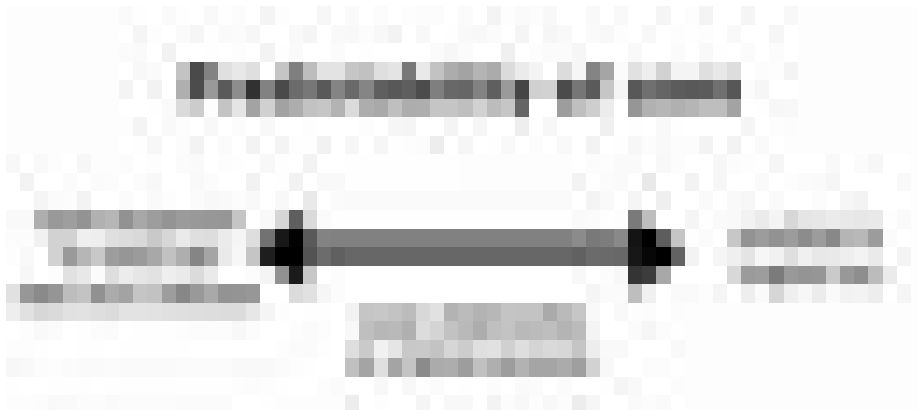
- É («characteristics of users»)
- É («predictability of uses»)
- É («sensitivity of content»)
- É («frame of reference needed to interpret and use content») toy
- É («status of metadata»)
- É («uniformity of information sources»)
- É («degree of integration among information sources»)
- É («usefulness of content over time»)

- («characteristics of users»)-

(Bonifacio, Bouquet and Cuel, 2002).



- («predictability of uses»)-



- («sensitivity of content»)-
/



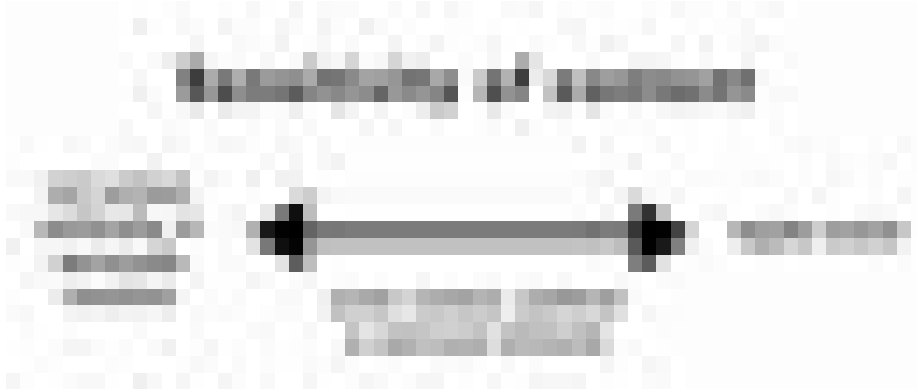
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),
).

(MacNeil, 2000; Owens, 2003).



- (◀frame of reference needed to interpret and use content▶)-



- (◀status of metadata▶)-



- - («uniformity of information sources»)

, , / /
 / /



- («degree of integration among information sources»)- (/ /)

virtual collections

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planner

planning group.

3.4.



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4. 1. e-learning Web 2.0

Web 2.0

() = ()

e-learning

(Iskold, 2008):

- («synchronous e-learning»),
 - («virtual classroom»)
 - («asynchronous e-learning»),
 - («blended learning»),
- e-learning (. .)

Web 2.0

(Thomas, 2006).

(Padula, Reggiori and Capetti, 2009).

(«technology enactment»)

(«organizational

forms»),

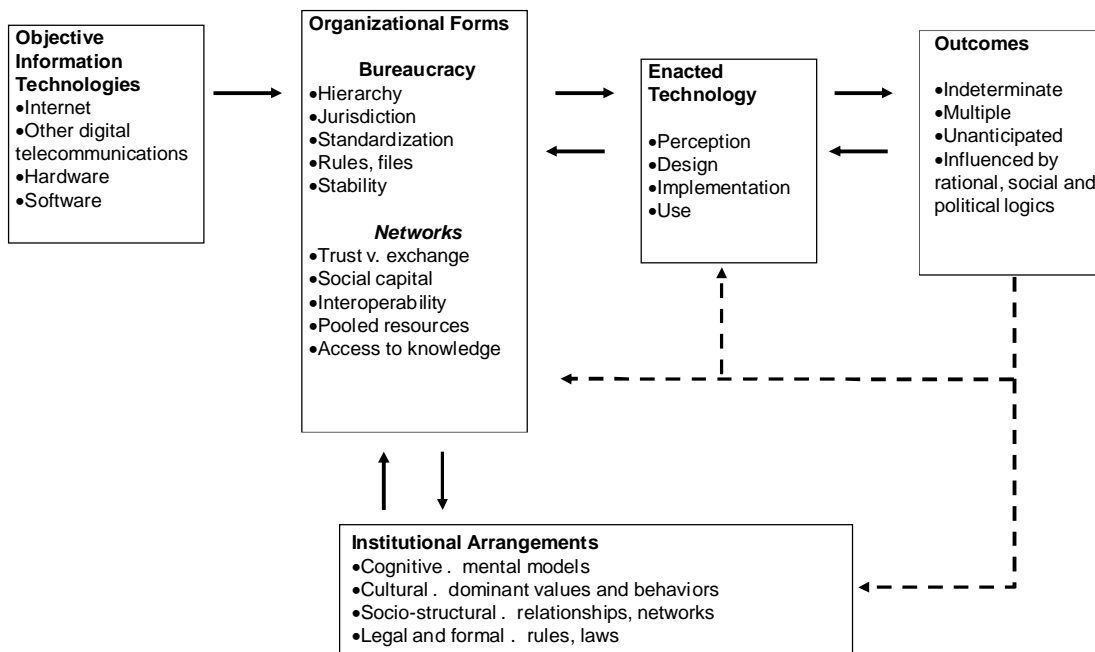
(«institutional arrangements»)

(«outcomes»).

(Naeve, 2005) (22).

Technology Enactment: An Analytical Framework

(J. E. Fountain, *Building the Virtual State*, p. 91)



22).
91).

(: J.F. Fountain, «Bulding the Virtual State», .

« »

(Lagoze, et al., 2005).

(Xu, Niu and Shi, 2008).

(Sicilia and Lytras, 2005).

(Kourtoumi, 2006).

(«extracting of scientific knowledge»),

(Ambrosini and Bowman, 2001).

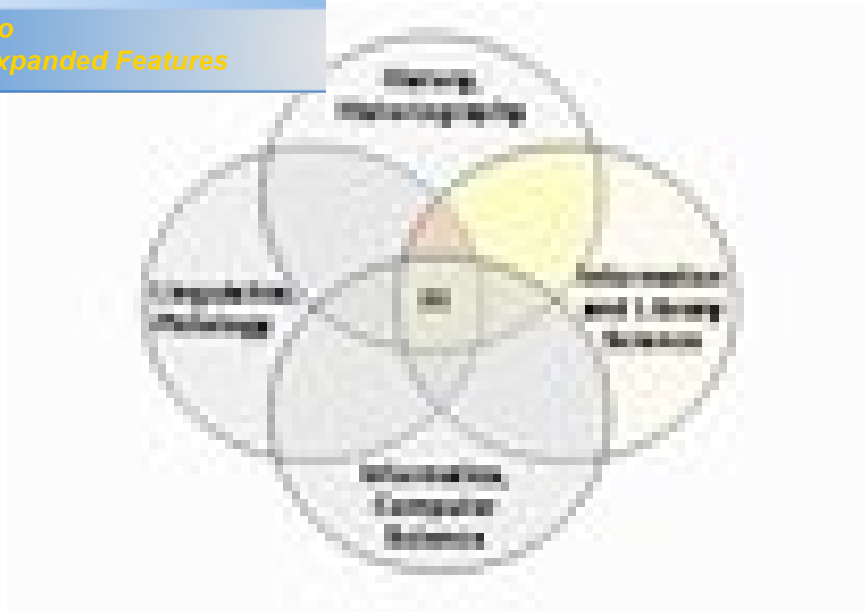
Web 1.0:

(Al-Hawamdeh, 2002).

Web 2.0

(23).

(Kourtoumi, 2005a).



23.

(«History Informatics», HI)

(History, Historiography, Linguistics, Philology, Library- and Information Science, and Informatics respectively Computer Science) (Burkard, Vogeler and Gruner, . 194).

4. 2.

, , (Antoniou and VanHarmelen, 2004). Web 1.0

, («interpreting of human knowledge»). Web 2.0 (Alotaibi, 2010).

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e-learning

(World Wide Web Consortium, 2008).

Web 2.0,

e-learning

ad hoc

(Baruzzo, et al., 2009a).

Web 2.0

(Baruzzo, et

al., 2009b).

H «

:

, 1990-2000» -

« » (as an instance migrant-women.jeromedl.org,

(«Digital Enterprise Research Institute»- DERI),

Galway («National University of Galway»)

. B

Oral History Association-

OHA,

49

« »

⁴⁹ Oral History Association . http://alpha.dickinson.edu/oha/pub_eg.

http://alpha.dickinson.edu/oha/pub_eg.html#Principles%20and%20Standards.

i, 2010).

web sites

(«transcripts»)

(«audio files»)⁵⁰.

bookmarking blog creation⁵¹.

« »

Web

2.0,

(«reuse»),

(«sharing»)

(«interoperability»)

()

(«concept maps»),

(«topic maps»)

(«conceptual graphs»)

(«Web Based

Educational Systems», WBES) (royo and Dicheva, 2002).

(Anderson and Whitelock, 2004).

H

« »

20

21

« »:

(Alexander, 2006).

⁵⁰ E , CHORAL, Center for Jewish History: Digital Collections, Archive of Turkish Oral Narrative, Leo Baeck Institute: Austrian Heritage Collection, *History of the Spanish Civil War*, Civil Rights Oral History Interviews, Oral Histories of the American South, Oral History Digital Collection - Youngstown State University Oral History Collection housed in the W. F. Maag Jr. Library, Spanish Civil War Oral History Project - University of South Florida, Tampa, etc

⁵¹ . . (2005) H : Harvard (OCP) 14 , 117-128.



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(«e-government»),

(=)

(Kurtoumi, 2007).

(historical approach «from the bottom to the top»)

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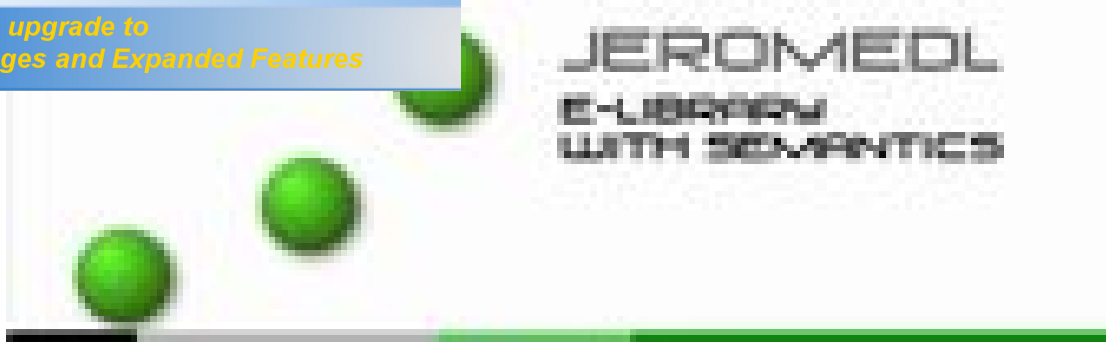
Semantic Digital Libraries (SDL) Working Groups

JeromeDL
 DERI Galway
⁵³ (Woroniecki, et

al., 2007) (24).

⁵² Project Title: Gender relationships in Europe at the turn of the millennium: Women as subjects in migration and marriage (GRINE), Project financed within Key Action, "Improving Human Potential and the Socio-Economic Knowledge Base", Contract no: HPSE-CT2001-00087, *Final Report to European Commission*, Duration of project: 1 October 2001 to 31 March 2004, Date of issue of this report: 17 June 2004, Duration of project: 1 October 2001 to 31 March 2004, Date of issue of this report: 17 June 2004, ec.europa.eu/research/social-sciences/pdf/finalreport/hpse-ct-2001-00087-final-report.pdf.

⁵³ , Digital Enterprise Research Institute (DERI), National University Ireland, Galway, Leopold-Franzens-University of Innsbruck, Stanford University, Seoul National University, DERI Galway (www.deri.ie), Semantic Digital Library (SDL), (www.deri.ie/research/working-groups),



24- Interface

JeromeDL (: <http://www.jeromedl.org>).

(Devedzic, 2003).

(Brusilovsky, 2003).

e-learning



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(25).



25-

(: <http://www.jeromedl.org>).

4.3.

« domain knowledge »
(«domain knowledge»),
(26).

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26- (: <http://www.jeromedl.org>).

JeromeDL

54

Web 2.0

(«Social Networking technologies»- SNT)

(Kourtoumi, 2009b) (27):



27- Interface (: <http://www.jeromedl.org>).

(«semantically annotated directories» SSCF.

54 H

MarcOnt initiative (<http://www.marcont.org>), MARC21, BibTeX, DublinCore.

SIOC

JeromeDL
2006).

blog post (Krug,

RDF («Resource Description Framework»)

(«browse action») («links»)
RDF⁵⁵ (28).



28- *MarcOnt Mediation Services* (: <http://www.jeromedl.org>).

-
-

JeromeDL,

Web 2.0 (Krug, 2005):

55 JeromeDL «Innovative MBB (MultiBeeBrowse) component offers multifaceted navigation and provides SOA for integration with other applications. TagsTreeMaps allows to easily filter out resources using clustered tags and presented with treemaps layout. Users can also navigate through the presented search results using SIMILE Exhibit component. The resulting e-Library covers such features like semantic enabled searching, library-to-library communication (L2L), automatic service personalization» (<http://www.jeromedl.org>).
<http://bleedingedge.jeromedl.org>.

(«formats»)

JeromeDL

browsing [<http://library.deri.ie/resource/qRYPto81>],
mobile devices («access channels»)
[<http://library.deri.ie/resource/ifQAJDfR>] (=)
(29).



29: A (: <http://www.jeromedl.org>).

•

[<http://library.deri.ie/resource/5e68d6a6>]
(«browsing experience») [<http://library.deri.ie/resource/UTO6lfsr>].

(«natural language query interface») [<http://library.deri.ie/resource/JyWYJN6o>]
(=) (30).



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30: (: <http://www.jeromedl.org>).

O

JeromeDL

,
(«semantically annotated directories»).

JeromeDL:

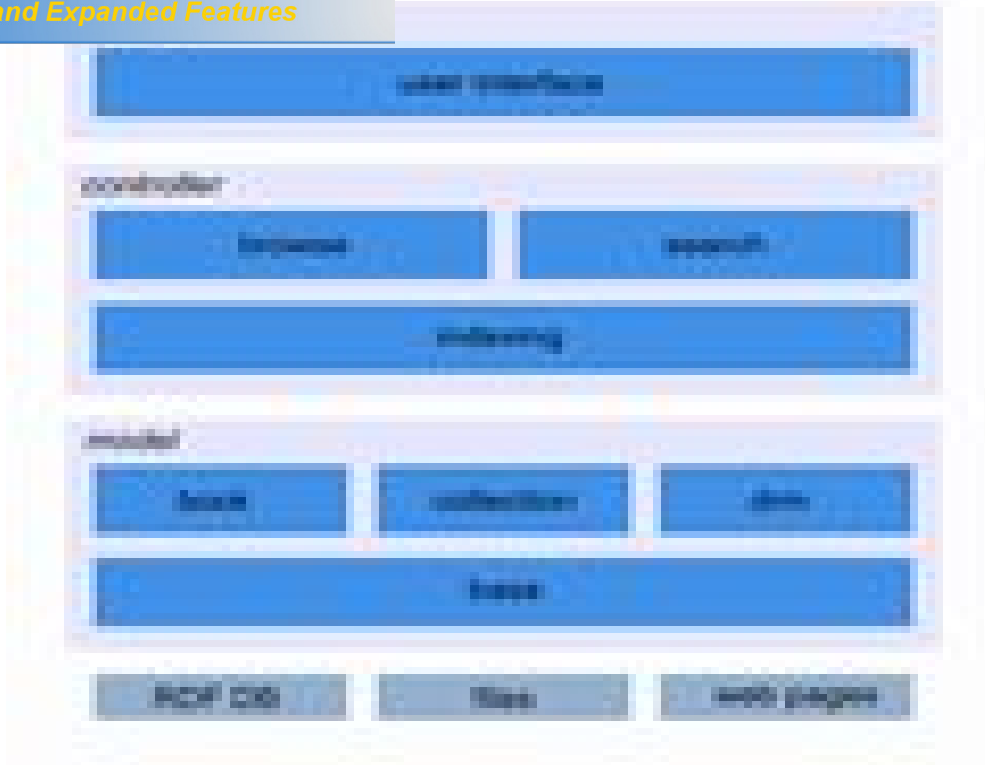
,
JeromeDL

blog post.

31).

, (

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31-

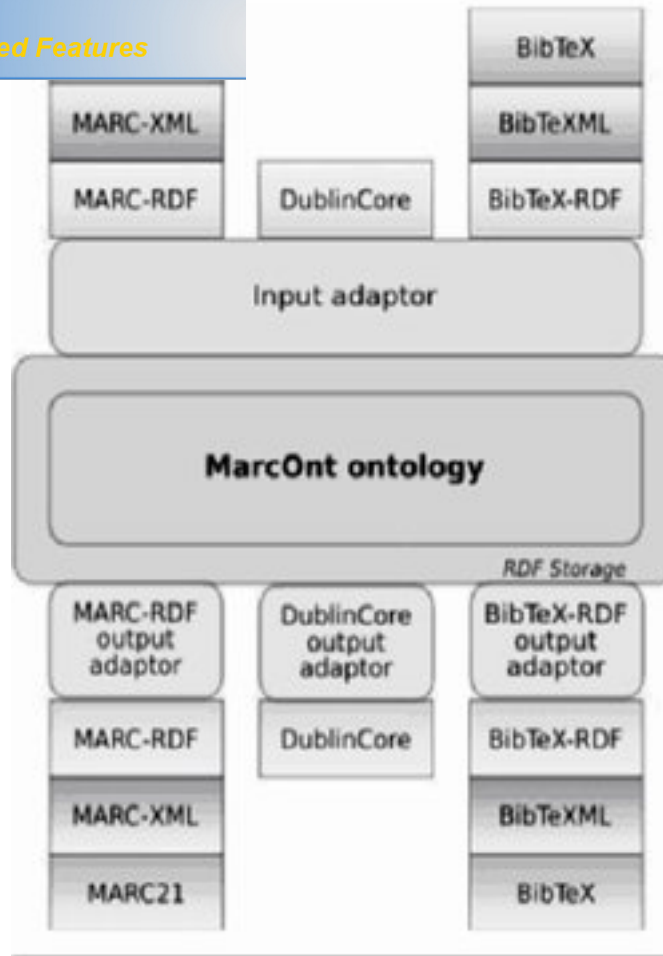
JeromeDL (:)

<http://www.jeromedl.org>).

e-learning,
DLibra, EPrints, Greenstone).

, browsing
(DSpace,
JeromeDL

e-learning (Didaskon-<http://didaskon.corrib.org/>
IKHarvester <http://library.der.i.edu/resource/y82VWWrZ> components MarcOnt
ontology SCORM concepts) (Krug and Zimmermann, 2005) (
32).



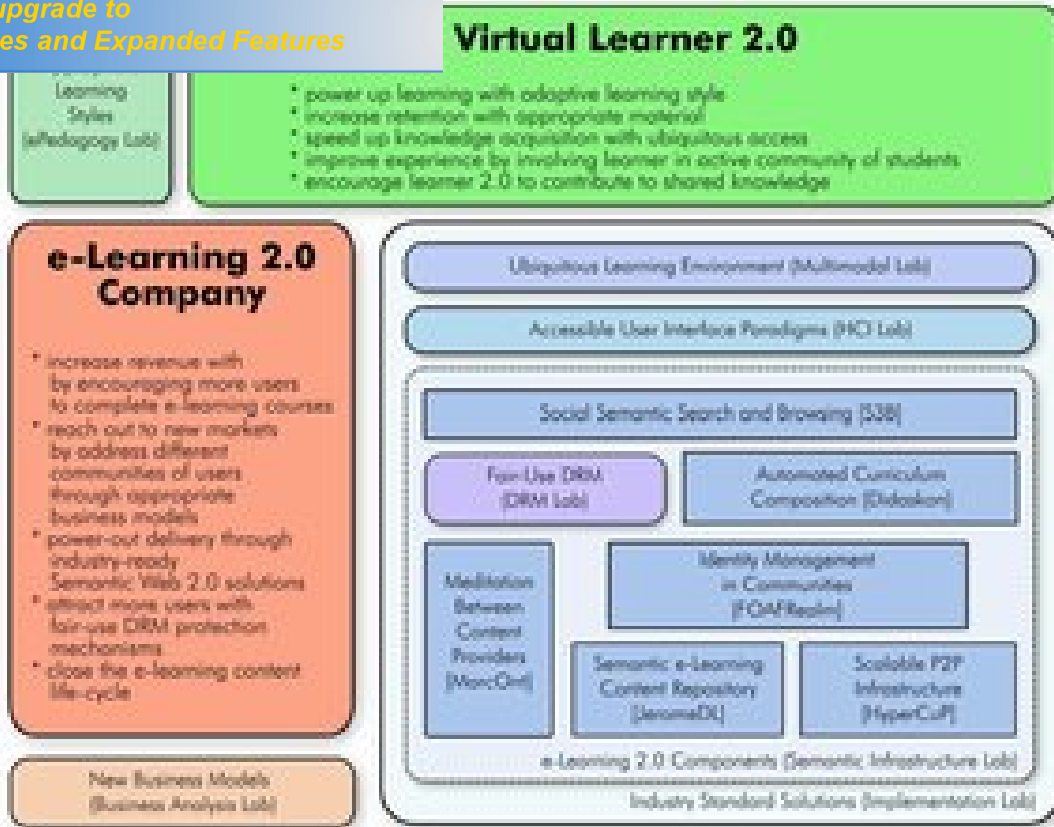
32-

MarcOnt (: <http://www.jeromedl.org>).

, , e-learning.

(33).

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33- JeromeDL

e-Learning 2.0 Social Semantics
(: <http://www.jeromedl.org>).

ISAD (G),
(International Council on Archives, 2000).

ó (õconceptö)) μ (õrelationsö), μ (õaxiomsö) (Maedche and Staab, 2001).

1 («*Shared term definitions*»)-

(, ,)

2 («*Formal semantic interoperability*»)-

« » , (,) .

57 .

« » , () .

2 - « - »

Web 2.0, :

3 («*Description Set syntactic interoperability*»):

(, 2005).

4 («*Description Set Profile interoperability*»)⁵⁸:

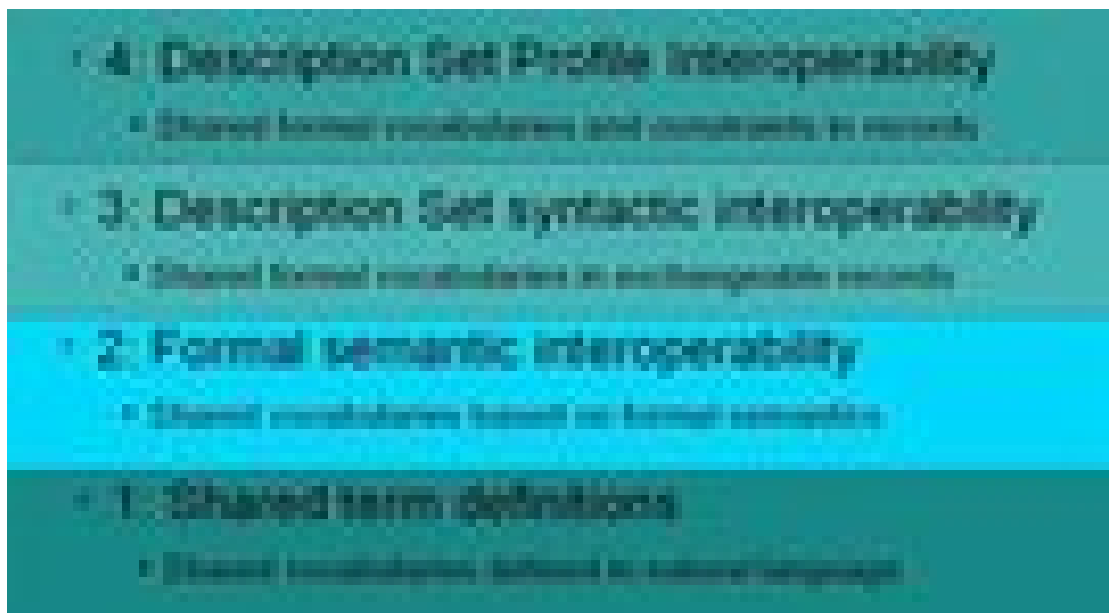
(), (),

(«*Semantic Digital Libraries Scenarios in eLearning*») (Krug, Krug and Stankiewicz, 2008):

⁵⁷ ECLG COMMISSION PROPOSAL FOR A DIRECTIVE ON MEDIATION, 2004. 718 final, ECLG/122/2004 ó November, http://209.85.129.104/search?q=cache:wYO6Ghvc284J:www.europarl.europa.eu/comparl/juri/consultations/eclg_en.pdf+ECLG+is+useful+procedure&hl=el&ct=clnk&cd=3&gl=gr.

⁵⁸ T 3 4 1 2, software. 3 4 ,

- («interconnection of meaningful resource description of metadata with social media») (« »)
- « » « », («improvement of knowledge creation, delivery and sharing») («thematic map») («intergrated social networking with user profiling»)
- («collaborative browsing and filtering dynamic collections»)
- (« knowledge odes») [«on the verge between formal (=libraries) and informal (=communities) learning sources»]
- (« », «Distributed Knowledge Management», DKM) («semantic interoperability with Learning Management Systems»)



346

« » (: <http://www.jeromedl.org>).



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e-learning e-research

« online »
 ,
 («communities of action»).

Web 2.0
 («social technologies»)

I ,
 (EA)

()

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blog,

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on line

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on line

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on line

line, Wikipedia bookmark sharing systems blogging

. H blog

(Kourtoumi, 2009a) (35).

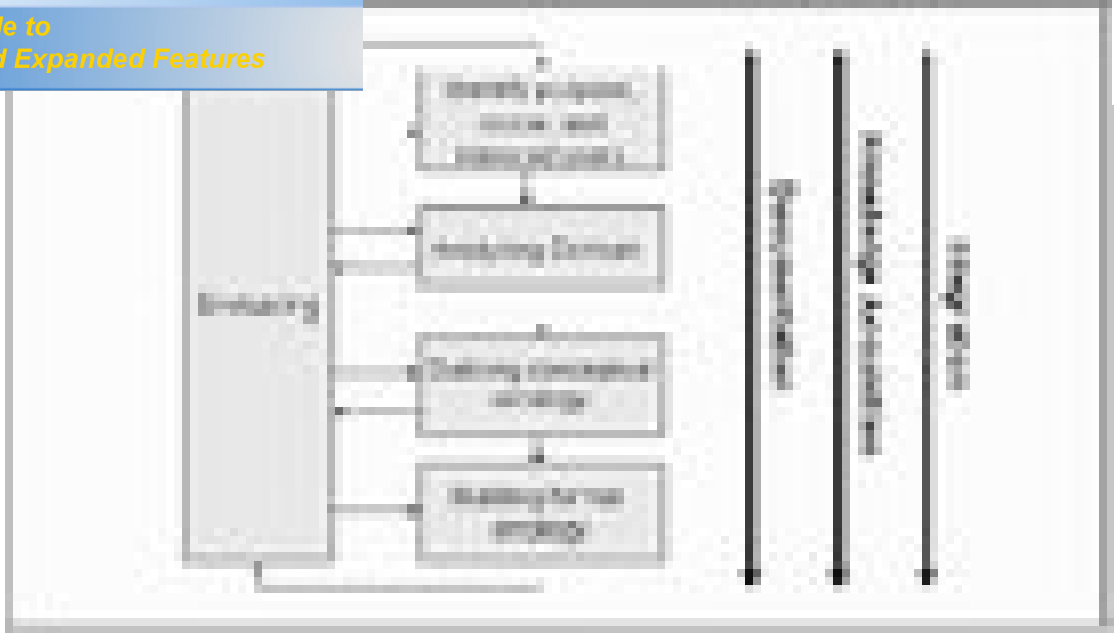
, Wikipedia, bookmarks sharing , . . . blogs.

- («search features») («bookmarks»)
- bookmarking
- , blog



35- *e-learning* « » (: <http://www.jeromedl.org>).

- JeromeDL Web 2.0.



36-

(
) (: <http://www.jeromedl.org>).

- SIOC-

(«community-based content»)

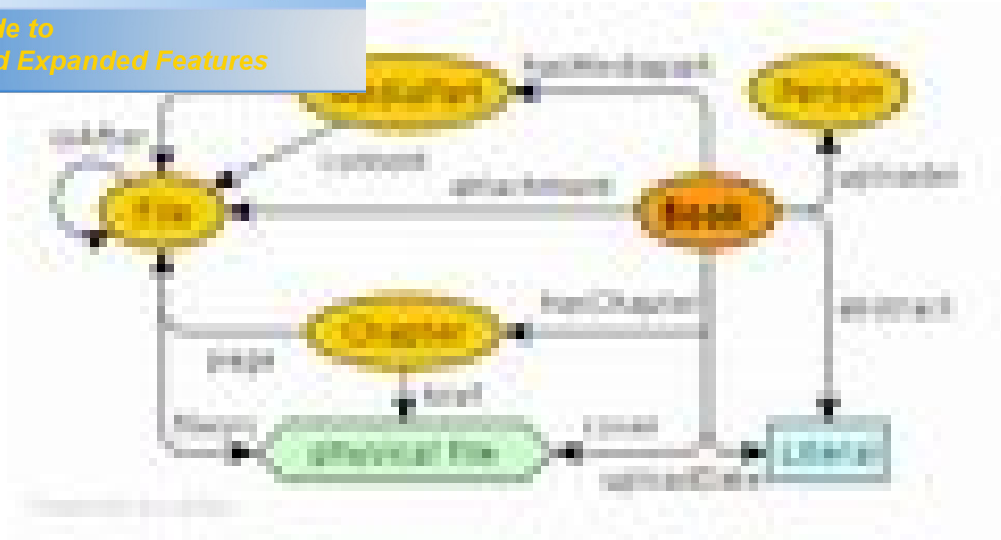
Web, blogs, fora (= forums)

SIOC

⁵⁹ SIOC

Web («interoperability») (37).

⁵⁹ Semantically-Interlinked Online Communities (SIOC), <http://sioc-projert.org/>.



37 - <http://www.jeromedl.org>.

(«structure ontology») JeromeDL (:

- SIOC JeromeDL (, RDF, SIOC
- Social Semantic Collaborative Filtering (SSCF) JeromeDL -- SIOC concepts



JeromeDL Ontology Index

An alphabetical index of JeromeDL terms, by class (categories or types) and by property. All the terms are hyperlinked to their detailed description for quick reference.

Classes: | [Book](#) | [BookType](#) | [Chapter](#) | [File](#) | [MediaPart](#) | [ProtectionType](#) | [ResourceType](#) | [SequencedFile](#) | [XslFoSource](#) |

Properties: | [abstract](#) | [allowedTo](#) | [attachement](#) | [bookType](#) | [chapter](#) | [content](#) | [contentSmaller](#) | [cover](#) | [description](#) | [digitalType](#) | [fileSrc](#) | [height](#) | [href](#) | [mediaPart](#) | [mimeType](#) | [name](#) | [page](#) | [pagesRangeFrom](#) | [pagesRangeTo](#) | [position](#) | [preprint](#) | [previousVersion](#) | [protectionType](#) | [published](#) | [scaleToFit](#) | [thumbnail](#) | [title](#) | [updateDate](#) | [uploadDate](#) | [uploadedBy](#) | [usageCount](#) | [versionNumber](#) | [width](#) |

38-

JeromeDL (: <http://www.jeromedl.org>).

Y SIOC: bookmarking
 post, forum or site , URL. SIOC
 Browser URL post, forum or site
 RDF SIOC URL.
 bookshelf browsing.
 SSCF RDF («SSCF RDF repository»).

SSCF module bookmarks tree
 SIOC («SIOC information»).

SIOC-based items directory ,
 SSCF .
 (« »). («interface»)

AJAX. , directories
 , browser
 () (39).

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Class or property name	Description
sioc:Post	Annotation of the resource
dc:title	Title of the post
sioc:related_to	Points to the annotated resource
dc:description	Body of the annotation
dcterms:created	When the annotation was created
sioc:has_creator	Author of the annotation
sioc:has_reply	Represents a reply for that annotation

39 - SIOC: Post concepts
 JeromeDL (: <http://www.jeromedl.org>).

(«ontology alignment»):

JeromeDL
 SSCF SIOC,

JeromeDL,
 SIOC.

SSCF blog («SSCF resources blogs»)

JeromeDL

SIOC

(see Fig.4).

SSCF
 module

SIOC:Post class

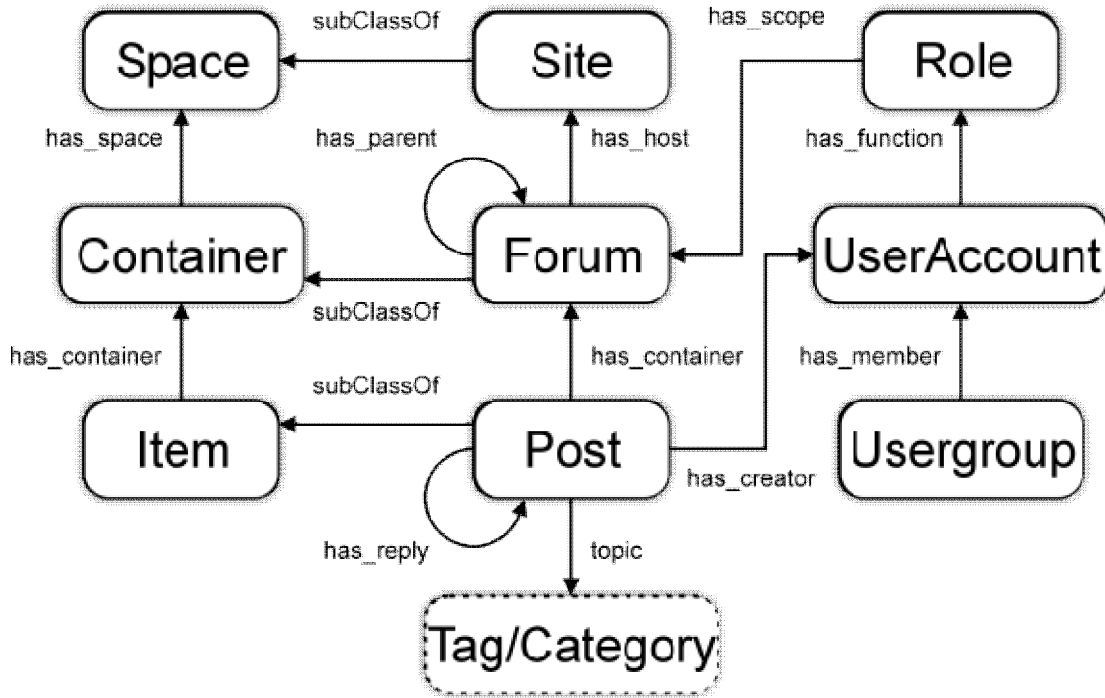
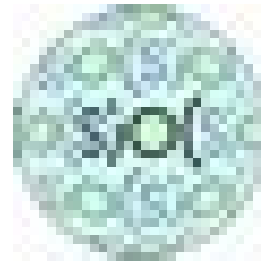
JeromeDL
 RDF.

:

SSCF SIOC

(

40).



416 O classes properties SIOC, «UserAccount change» (: http://sioc-project.org/node/341).

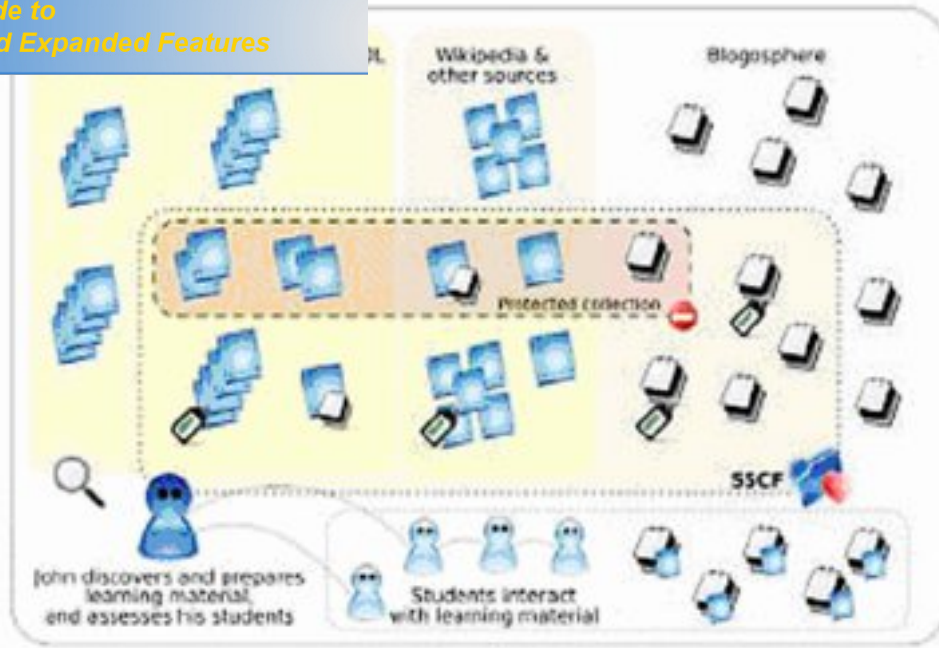
e-learning , («resources»).

JeromeDL SIOC:Posts RDF.

SIOC. To JeromeDL («resource description page»). blog post.

post blog forum.

(42).



426
JeromeDL (: <http://www.jeromedl.org>).

SSCF SIOC

«annotation mechanism»
AJAX.

SIOC RDF.

Web 2.0, e-learning « »:

- ()
- (SSCF)

(SIOC)



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JeromeDL

(«Social Semantic Digital Library»).

(«archival

knowledge repository»)

(«thematic digital collection»).

e-learning

- social semantic bookmarking
- semantic blog

blogging:

(«community of action»)

browse

interface.

Web 2.0

JeromeDL

Social Semantic Digital Library.

SSCF component
bookmarking

(«semantically annotated directories»).

SSCF browser

bookmarking browsing

JeromeDL

single library resource

blog.

SIOC based

annotations

(«Sharing Knowledge in Social

SSCF ()

(«collections of bookmarks»)

∅ , SSCF

bookmarks

SSCF bookmarks directories. directory

WordNet, DMoz

DDC. directory

(Krug and Zimmerman, 2005).

SSCF

SSCF directory.

50%.

FOAF model,

FOAFRealm

60

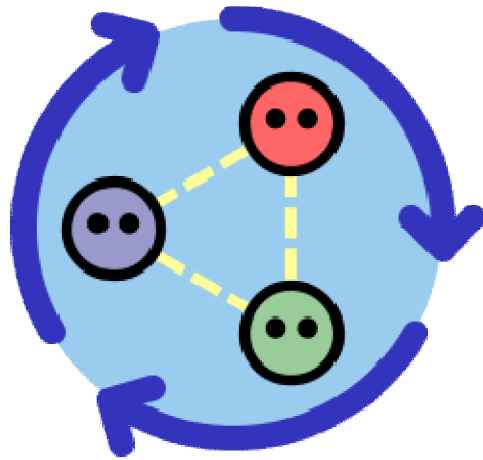
met») 100% 0%

(«as never (»as the best friend»). O

⁶⁰ FoaF o Friend of a Friend, Web 2.0.

(Kruk,

43).



43 - JeromeDL
<http://www.jeromedl.org>.

FOAFRealm (:

(=)
 . SSCF

bookmarks

directories,

directories.

(«Problem Solution»)

Social Semantic Collaborative Filtering (SSCF)

bookmarks

directories bookmarks
bookshelf

(= directories bookmarks)

(Almeida and Almeida, 2004), directories

bookshelf.

directories

(, ,)

),

/

SSCF

bookmarking

, ...

SSCF

(«knowledge repository»).

,

portals

,

SSCF.

- *Bookmarking*
(«Bookmarking Community-Based Content»)

links

bookmarking

links

(blogs).

SSCF

JeromeDL,

SIOC,

browse

bookmark

,

- / («Resources Annotations»)

:

blog,



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blog post.

SSCF,

(«added value»).

SIOC.

SSCF
SIOC resource (sioc:Post)
(«semantic description»).

SSCF bookmarks interface.

- (*«Knowledge Repository»*)
- semantic blog. , semantic bookmarking
- bookmark links
- , ∅
- blog-style :
- bookmarks
- interface (browse bookmarks
- 44).

JeromeDL for the Migrant Women project (Jan 2008)



url: <http://migrant-women.jeromedl.org>

organization: Migrant Women

number of resources: 150 (October 2008)

License

Copyright (c) 2003-2008,
Digital Enterprise Research Institute,
National University of Ireland, Galway, Ireland
<http://www.deri.org/>

Faculty of Electronics, Telecommunication and Informatics and Main Library
Gdansk University of Technology, Poland
<http://www.eti.pg.gda.pl/>
<http://www.bg.pg.gda.pl/>

*JeromeDL is distributed under the New BSD License.
[Please note that JeromeDL is a joined project between DERI and GUT, based on the
previously released Elvis-DL code (under GPL license)]*

Showcase

. Basic Library Features

1. Storage

- bibliographic description
- content
- additional attachments of any format

- * many predefined formats of resource content
 - PDF
 - XSL:FO
 - SWF (Macromedia Flash)
 - RTF
 - collection of scanned pages
 - links to external resource
- * managing resources in the library
 - uploading
 - modifying
 - publishing (approving new or modified resources)
 - removing

2. Indexing

- * full-text indexing with Lucene
 - bibliographic description
 - resource content
 - external resources defined by links

3. Browsing

- * browsing library resources
 - by types
 - by authors
 - by titles
 - ...
- * converting resources to other formats on-the-fly:
 - PDF -> PS, TXT, collection of pages
 - collection of pages -> PDF, SWF
 - RTF -> HTML, RTF, PDF
 - XSL:FO -> HTML, RTF, PDF
- * internationalized user interface

4. Search

- * simple search (author, title, etc.)
- * full-text search

Identity management

- realm
- privileges
- access to resources
 - printing or coping
 - resources management
 - users management

. *Semantic Web Related Features*

1. Storage

- * *utilization of well defined ontologies for metadata storing*
 - *MarcOnt ontology for bibliographic description*
 - *JeromeDL ontology for description of resource structure*
 - *FOAFRealm ontology for information about user profile and authors*
- * *Sesame RDF framework for metadata*
- * *MarcOnt Mediation Services (MMS)*
 - *provides interoperability between MARC21, BibTeX and DublinCore metadata*
 - *delivering metadata to other services*
 - *allows retrieval of metadata in any ontology*

2. Browsing

- * *dynamic collections*
 - *specified with triples filter or RDF query*
 - *easily extensible*
- * *access control*
 - *apply access control licenses to resources and services*
 - *defines atomic protections based on IP or position in the social network*
 - *is easily extensible*
- * *TagsTreeMaps*
 - *filtering based on clustered tags*
 - *using tree maps to present the tag space*
 - *zoom-able interface paradigm*
- * *Exhibit (SIMILE, MIT)*
 - *powerful facet filtering*
 - *rendering related dates on the timeline*
 - *rendering related dates on the google maps*

- allows to perform complex browsing operations
- allows to overview browsing context and look up browsing history

3. Search

- * *typed-keywords search*
 - advanced (*JeromeDL* types)
 - expert (*MARC21, BibTeX, DublinCore, etc. types*)
- * *distributed search*
 - searching in the heterogenous network of digital libraries
 - new implementation of the *Extensible Library Protocol*
 - based on *HyperCuP P2P* network
- * *federated search*
 - hierarchical order of *JeromeDL* instances
 - exposing resources bottom-up
- * *Semantic Query Expansion*
 - refines query based on current context
 - based on user profile
 - based on history of queries
 - based on current query
- * *natural language templates*
 - performing complex queries using natural languages
 - easily extendible and modifiable
 - easily internationalized
- * *OAI interface (alpha version)*
 - harvesting other libraries
 - exposing resources to other libraries
- * *OpenSearch interface (to A9.com)*
- * *RDF query interface*
 - querying the *RDF* storage directly in *RDQL* and *SeRQL*
 - *SWSE* integration

4. Identity management

- * *annotating and evaluating resources by users*
- * *online bookmarks structure*
- * *social networking*

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ed with WordNet concepts (proposed to users from the and Dewey Decimal Classification entries - users can link folders maintained by their friends to their bookmarks structure - users can protect the folders with ACLs based on distance and friendship level calculated between folder owner and requester

* each time user access a resource, the domain information related to the ranking value of folder-category in which this resource is stored is incremented

- users can manage the ranking values of their domains
- users can add domains created by their friends to their own list of domains



44 - JeromeDL « » (: http://www.jeromedl.org).

4.7.

JeromeDL « » e-learning , 61.

-
- blog
- bookmarking

(«social semantic digital collection»),

blog

SIOC.

SSCF

bookself, SSCF SIOC browsing

bookmarks SSCF interface.

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- (=)

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JeromeDL

JeromeDL

SSCF SIOC,

45).

«

»

logging-in

bookmarking

blog

e-learning

(=),

(=)

e-learning

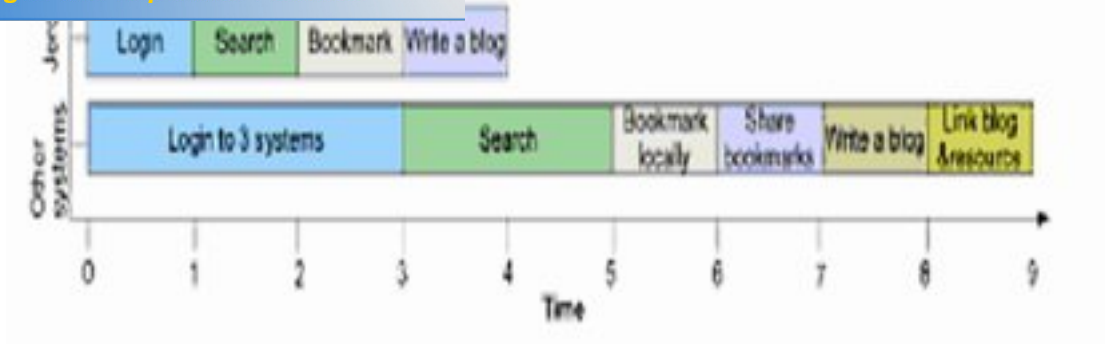
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45- JeromeDL)

a) (: http://www.jeromedl.org).

4.8.

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Web 2.0

« »

Web 2.0

e-learning



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• , , « » ,
JeromeDL e-learning :

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- e-learning
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